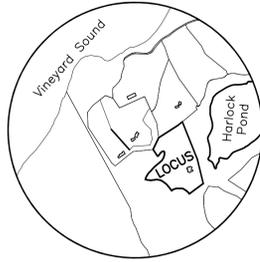
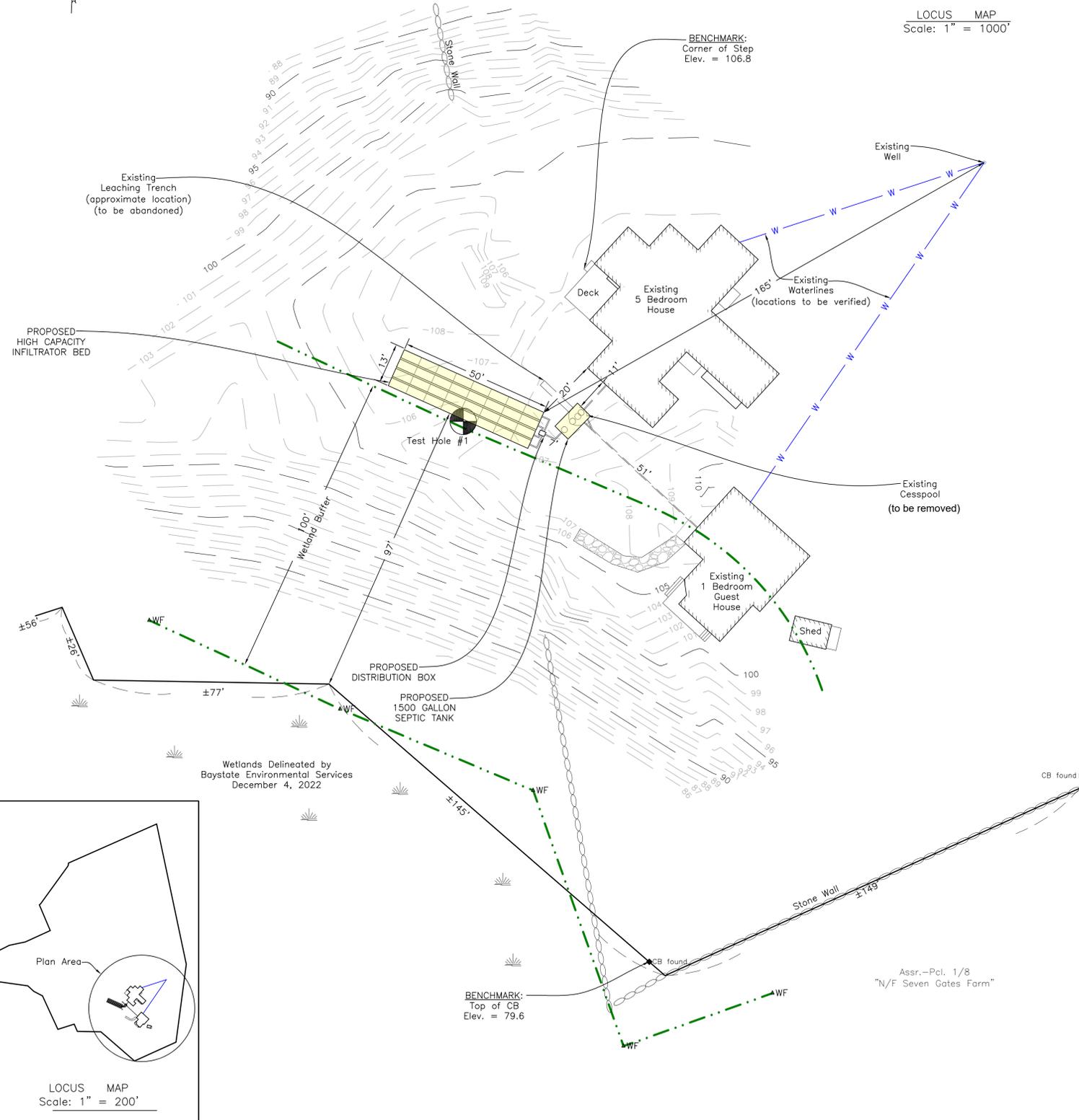


Plan

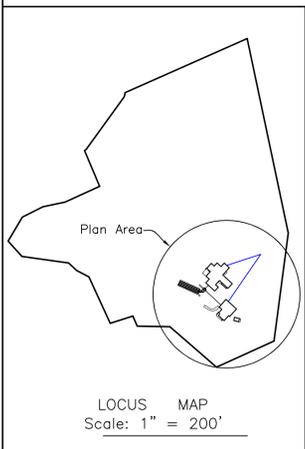
Scale: 1 in. = 20 ft.
Datum: ±U.S.G.S.



LOCUS MAP
Scale: 1" = 1000'



Wetlands Delineated by
Baystate Environmental Services
December 4, 2022

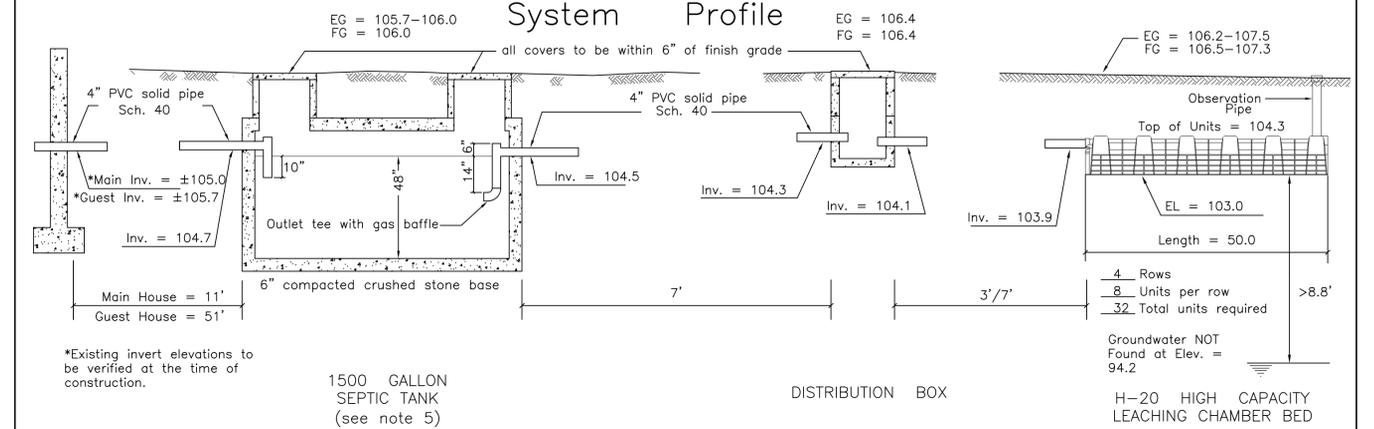


LOCUS MAP
Scale: 1" = 200'

LEGEND

PROPOSED CONTOUR	EXISTING CONTOUR		+100.7.....EXISTING SPOT ELEVATION	W.....WATER SERVICE LINE	TEST HOLE LOCATION
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System Profile



*Existing invert elevations to be verified at the time of construction.

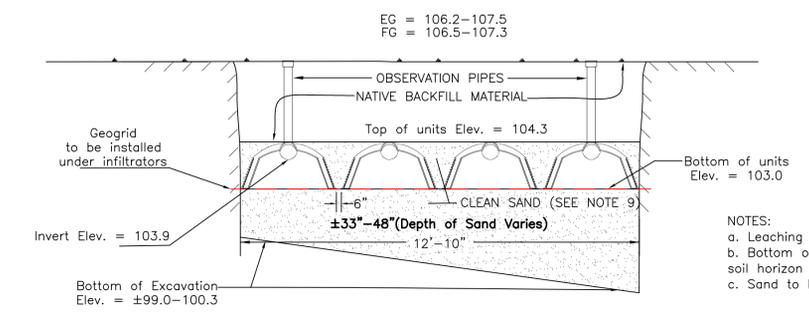
1500 GALLON SEPTIC TANK (see note 5)

DISTRIBUTION BOX

H-20 HIGH CAPACITY LEACHING CHAMBER BED

System Cross Section

NOTE: Not to scale



- NOTES:
- Leaching chamber rows shall be spaced 6" apart.
 - Bottom of excavation shall extend into the "C2" soil horizon at least 6"
 - Sand to be compacted in 6" lifts

To avoid compaction, no machinery is allowed within three vertical feet of bottom of excavation without the specific approval of the design engineer. This leaching facility is not designed for H-20 loads and shall not be driven upon, even though H-20 leaching chambers are specified.

Notes

- This plan is to be used only for the approval and installation of a sewage disposal system and is not to be used for any other purpose.
- All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
- This design does not warrant the location of underground pipes, wires, utilities or other underground structures. The installer shall be responsible for locating and relocating these objects as necessary.
- No garbage grinder is allowed with this system.
- Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
- An observation pipe shall be placed as shown and capped at grade so as to allow monitoring of liquid level in the leaching system. Place re-rod flush at each to aid in relocating with metal detector.
- All access covers are to weigh at least 150 lbs. or screwed down.
- Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffuser or an approved equivalent.
- Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
- No wells could be found within 150' of the proposed leaching facility.
- The engineer (AND the local approving authority) is to inspect and approve the installation and placement of all septic components before final backfilling.**
- A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.

Design Criteria

Design Hydraulic Loading:
6 Bedrooms x 110 GPD/Bedroom = 660 GPD

Septic tank capacity:
Required: 660 GPD x 200% = 1320 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
32 Leaching Chamber Units
32 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 944 sq.ft.
944 sq.ft. x 0.74 GPD/sq.ft. = 699 GPD

* Per modified certification for general use High capacity leaching chamber units are allowed 4.7 sq.ft. leaching area per lineal ft. in bed configuration.

Proposed Septic System Upgrade on Land in Chilmark, MASS.

Designed for: Sarah Leahy
Street Address: #89 Harlock Pond Road
Assessor No.: 2-1
Lot Area: ±6.7 AC
Designed By: Meegan Lancaster
Checked By: R.G.S.
Date: February 2, 2022
Revised:



Soil evaluator: Reid G. Silva, P.E. SOIL DATA
Witnessed By: Anna McCaffrey

Deep Observation Hole 1.
Date: December 22, 2022
Surface elevation = 106.2
Depth Horizon Texture
0"-10" A Sandy loam
10"-40" B Loamy sand
40"-80" C1 Silt Loam
80"-144" C2 Medium coarse sand
Perc. rate < 5 mpi. @80"
No groundwater found at Elev. = 94.2

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